(SEQ ID NO: 1)

(SEQ ID NO: 1)																
gcgccgcgtc ccgcaggccg tgatgccgcc cgcgcggagg tggcccggac cgcagtgccc 60														60		
caa	gaga	gct	ctaa	tggt	ac c	aagt	gaca	g gt	tggc	ttta	ctg	tgac	tcg	ggga	cgccag	120
agc	tcct	gag												ggt a Gly '		169
														gac Asp		217
ccc Pro	ttc Phe 30	tgc Cys	aaa Lys	gga Gly	gac Asp	gtg Val 35	ctc Leu	acc Thr	att Ile	gtg Val	gcc Ala 40	gtc Val	acc Thr	aag Lys	gac Asp	265
ccc Pro 45	aac Asn	tgg Trp	tac Tyr	aaa Lys	gcc Ala 50	aaa Lys	aac Asn	aag Lys	gtg Val	ggc Gly 55	cgt Arg	gag Glu	ggc Gly	atc Ile	atc Ile 60	313
cca Pro	gcc Ala	aac Asn	tac Tyr	gtc Val 65	cag Gln	aag Lys	cgg Arg	gag Glu	ggc Gly 70	gtg Val	aag Lys	gcg Ala	ggt Gly	acc Thr 75	aaa Lys	361
ctc Leu	agc Ser	ctc Leu	atg Met 80	cct Pro	tgg Trp	ttc Phe	cac His	ggc Gly 85	aag Lys	atc Ile	aca Thr	cgg Arg	gag Glu 90	cag Gln	gct Ala	409
gag Glu	cgg Arg	ctt Leu 95	ctg Leu	tac Tyr	ccg Pro	ccg Pro	gag Glu 100	aca Thr	ggc Gly	ctg Leu	ttc Phe	ctg Leu 105	gtg Val	cgg Arg	gag Glu	457
														gac Asp		505
aag Lys 125	gtg Val	gag Glu	cac His	tac Tyr	cgc Arg 130	atc Ile	atg Met	tac Tyr	cat His	gcc Ala 135	agc Ser	aag Lys	ctc Leu	agc Ser	atc Ile 140	553
gac Asp	gag Glu	gag Glu	gtg Val	tac Tyr 145	ttt Phe	gag Glu	aac Asn	ctc Leu	atg Met 150	cag Gln	ctg Leu	gtg Val	gag Glu	cac His 155	tac Tyr	601
acc Thr	tca Ser	gac Asp	gca Ala 160	gat Asp	gga Gly	ctc Leu	tgt Cys	acg Thr 165	cgc Arg	ctc Leu	att Ile	aaa Lys	cca Pro 170	aag Lys	gtc Val	649
atg Met	gag Glu	ggc Gly 175	aca Thr	gtg Val	gcg Ala	gcc Ala	cag Gln 180	gat Asp	gag Glu	ttc Phe	tac Tyr	cgc Arg 185	agc Ser	ggc Gly	tgg Trp	697
gcc Ala	ctg Leu 190	aac Asn	atg Met	aag Lys	gag Glu	ctg Leu 195	aag Lys	ctg Leu	ctg Leu	cag Gln	acc Thr 200	atc Ile	ggg Gly	aag Lys	Gly ggg	745

FIG. 1 cont.

					atg Met 210											793
					aac Asn											841
					caa Gln											889
					gag Glu											937
					ctt Leu											985
					tgt Cys 290											1033
					gag Glu					gtg					gct	1081
					gtg Val											1129
					gag Glu											1177
cca Pro	gtc Val 350	aag Lys	tgg Trp	aca Thr	gcc Ala	cct Pro 355	gag Glu	gcc Ala	ctg Leu	aga Arg	gag Glu 360	aag Lys	aaa Lys	ttc Phe	tcc Ser	1225
					tgg Trp 370											1273
					cct Pro											1321
					ggc Gly											1369
					gtc Val											1417

FIG. 1 cont.

Met Arg Pro S		_				1465
acc cac gag c Thr His Glu L 445	-	u	gg ceteegeet	g ggtcatggo	gC	1513
ctgtggggac tg	aacctgga a	agatcatgga	cctggtgccc	ctgctcactg	ggcccgagcc	1573
tgaactgagc cc	cagcgggc 1	tggcgggcct	ttttcctgcg	tcccagcctg	cacccctccg	1633
gccccgtctc tc	ttggaccc a	acctgtgggg	cctggggagc	ccactgaggg	gccagggagg	1693
aaggaggcca cg	gagcggga (ggcagcgccc	caccacgtcg	ggcttccctg	gcctcccgcc	1753
actcgccttc tt	agagtttt a	attcctttcc	ttttttgaga	tttttttcc	gtgtgtttat	1813
tttttattat tt	ttcaagat a	aaggagaaag	aaagtaccca	gcaaatgggc	attttacaag	1873
aagtacgaat ct	tatttttc d	ctgtcctgcc	cgtgagggtg	ggggggaccg	ggcccctctc	1933
tagggacccc tco	gccccagc (ctcattcccc	attctgtgtc	ccatgtcccg	tgtctcctcg	1993
gtcgccccgt gt	ttgcgctt	gaccatgttg	cactgtttgc	atgcgcccga	ggcagacgtc	2053
tgtcaggggc tto	ggatttcg t	tgtgccgctg	ccacccgccc	acccgccttg	tgagatggaa	2113
ttgtaataaa cca	acgccatg a	aggacaccgc	cgcccgcctc	ggcgcttcct	ccaccgaaaa	2173
aaaaaaaaa aa	aa					2187

	FIG. 2 EQ ID NO: 2)														
(SE	Q ID	NO:	2)												
Met 1	Ser	Ala	Ile	Gln 5	Ala	Ala	Trp	Pro	Ser 10	Gly	Thr	Glu	Cys	Ile 15	Ala
Lys	Tyr	Asn	Phe 20	His	Gly	Thr	Ala	Glu 25	Gln	Asp	Leu	Pro	Phe 30	Cys	Lys
Gly	Asp	Val 35	Leu	Thr	Ile	Val	Ala 40	Val	Thr	Lys	Asp	Pro 45	Asn	Trp	Tyr
Lys	Ala 50	Lys	Asn	Lys	Val	Gly 55	Arg	Glu	Gly	Ile	Ile 60	Pro	Ala	Asn	Tyr
Val 65	Gln	Lys	Arg	Glu	Gly 70	Val	Lys	Ala	Gly	Thr 75	Lys	Leu	Ser	Leu	Met 80
Pro	Trp	Phe	His	Gly 85	Lys	Ile	Thr	Arg	Glu 90	Gln	Ala	Glu	Arg	Leu 95	Leu
Tyr	Pro	Pro	Glu 100	Thr	Gly	Leu	Phe	Leu 105	Val	Arg	Glu	Ser	Thr 110	Asn	Tyr
Pro	Gly	Asp 115	Tyr	Thr	Leu	Cys	Val 120	Ser	Cys	Asp	Gly	Lys 125	Val	Glu	His
Tyr	Arg 130	Ile	Met	Tyr	His	Ala 135	Ser	Lys	Leu	Ser	Ile 140	Asp	Glu	Glu	Val
Tyr 145	Phe	Glu	Asn	Leu	Met 150	Gln	Leu	Val	Glu	His 155	Tyr	Thr	Ser	Asp	Ala 160
Asp	Gly	Leu	Cys	Thr 165	Arg	Leu	Ile	Lys	Pro 170	Lys	Val	Met	Glu	Gly 175	Thr
			Gln 180				_	185					190		
		195	Lys				200		_	-	_	205		-	-
	210		Gly			215			_		220		_		
225			Ala		230					235					240
			Arg	245					250			_		255	
			Gly 260					265			_		270	_	
		275	Asp				280		_			285			
	290		Leu			295		_		-	300				_
305			Asn		310					315					320
			Glu	325					330					335	
			Ser 340					345	_	_			350	_	
		355	Glu				360					365			
	370		Phe			375					380				
385			Pro		390				_	395					400
			Lys	405					410	_				415	
			Lys 420					425					430		
His		435	Leu	ALG	GIU	GTII	440	GIU	uis	тте	пуз	445	птз	GIU	neu
1112	450)													

(SEQ ID NO: 3) gcggagccaa ggcacacggg tctgaccctt gggccggccc ggagcaagtg acacggaccg 6																	
					cacg	gg t	ctga	ccct	t gg	gccg	gccc	gga	gcaa	gtg a	acac	ggaccg	60
	gtc	gcct	atc	ctga	ccac	ag c	aaag	cggc	c cg	gagc	ccgc	gga	gggg	acc f	tgac	gggggc	120
	gta	ggcg	ccg	gaag	gctg	gg g	gccc	cgga	g cc	gggc	cggc	gtg	gccc	gag 1	ttcc	ggtgag	180
	cgga	acgg	cgg	cgcg	cgca	ga t	ttga									aa aac lu Asn	234
					att Ile												282
					agc Ser 30												330
					tca Ser												378
					ttt Phe												426
					ttt Phe												474
					act Thr												522
					ctt Leu 110												570
					gga Gly												618
					atc Ile												666
					tgg Trp												714
					aat Asn												762
					act Thr 190												810

FIG. 3 cont.															
						gtg	aaa	cac	tac						858
										caa Gln					906
										gat Asp 245					954
										cag Gln					1002
										ttg Leu					1050
										atg Met					1098
										cca Pro					1146
										aaa Lys 325					1194
										gaa Glu					1242
										tta Leu					1290
										ctg Leu					1338
										aga Arg					1386
										gga Gly 405					1434
										att Ile					1482
										aaa Lys					1530

FIG. 3 cont.

gaa gct Glu Ala	gca Ala	ctg Leu 445	tat Tyr	ggt Gly	cgg Arg	ttt Phe	aca Thr 450	ata Ile	aag Lys	tct Ser	gat Asp	gto Val 455	Trp	tca Ser	1578
ttt gga Phe Gly															1626
cca ggt Pro Gly 475															1674
agg atg Arg Met 490															1722
aat ctg Asn Leu															1770
att cag Ile Gln													Gln		1818
cag cca Gln Pro					taat	tcaa	agt a	agcct	attt	t at	atgo	caca	a		1866
atctgcca	aaa a	tata	aaga	a ct	tgtg	ıtaga	a ttt	tcta	acag	gaat	caaa	ag	aagaa	aatct	1926
tctttact	ct g	cato	ıtttt	t aa	tggt	aaac	tgg	gaato	ccca	gata	tggt	tg	cacaa	aacca	1986
ctttttt	tc c	ccaa	igtat	t aa	acto	taat	gta	ccaa	atga	tgaa	ttta	tc	agcgt	atttc	2046
agggtcca	aaa c	aaaa	ıtaga	g ct	aaga	tact	gat	gaca	agtg	tggg	gtgad	cag	catgo	gtaatg	2106
aaggaca	gtg a	ggct	cctg	c tt	attt	ataa	ato	attt	cct	ttct	tttt	tt	cccca	aagtc	2166
agaattgo	ctc a	aaga	aaat	t at	ttat	tgtt	aca	gata	aaa	ctto	gagag	gat	aaaaa	gctat	2226
accataat	aa a	atct	aaaa	t ta	agga	atat	cat	ggga	cca	aata	atto	ca	ttcca	igtttt	2286
ttaaagtt	tc t	tgca	ttta	t ta	ttct	caaa	agt	tttt	tct	aagt	taaa	ıca	gtcag	gtatgc	2346
aatcttaa	ata t	atgo	tttc	t tt	tgca	tgga	cat	gggc	cag	gttt	ttca	ıaa	aggaa	tataa	2406
acaggato	ctc a	aact	tgat	t aa	atgt	taga	cca	caga	agt	ggaa	ıtttç	gaa	agtat	aatgc	2466
agtacatt	aa t	atto	atgt	t ca	tgga	actg	, aaa	gaat	aag	aact	tttt	ca	cttca	gtcct	2526
tttctgaa	iga g	tttg	actt	a ga	ataa	tgaa	ı ggt	aact	aga	aagt	gagt	ta	atctt	gtatg	2586
aggttgca	ıtt g	attt	ttta	a gg	caat	atat	aat	tgaa	act	acto	rtcca	at	caaaç	ıgggaa	2646
atgttttg	gat c	ttta	gata	g ca	tgca	aagt	aag	acco	agc	attt	taaa	ag	ccctt	tttta	2706
aaaactag	jac t	tcgt	actg	t ga	gtat	tgct	tat	atgt	cct	tato	ggga	itg	ggtgc	cacaa	2766
atagaaaa	ıta t	gacc	agat	c ag	ggac	ttga	atg	cact	ttt	gctc	atgg	ıtg	aatat	agatg	2826

FIG. 3 cont.

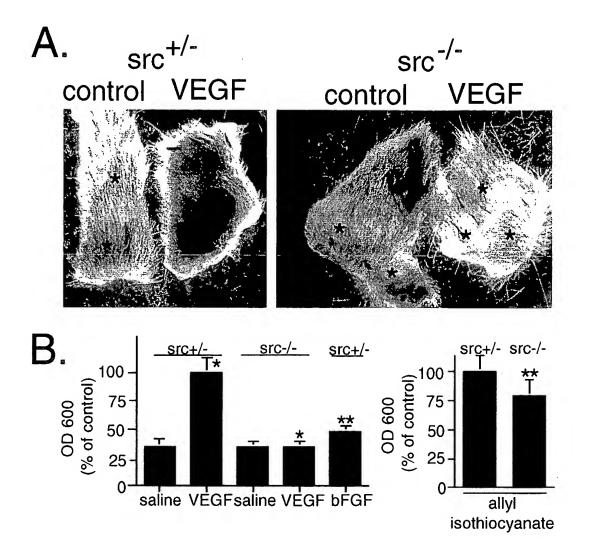
aacagagagg	aaaatgtatt	taaaagaaat	acgagaaaag	aaaatgtgaa	agttttacaa	2886
gttagaggga	tggaaggtaa	tgtttaatgt	tgatgtcatg	gagtgacaga	atggctttgc	2946
tggcactcag	agctcctcac	ttagctatat	tctgagactt	tgaagagtta	taaagtataa	3006
ctataaaact	aatttttctt	acacactaaa	tgggtatttg	ttcaaaataa	tgaagttatg	3066
gcttcacatt	cattgcagtg	ggatatggtt	tttatgtaaa	acatttttag	aactccagtt	3126
ttcaaatcat	gtttgaatct	acattcactt	ttttttgttt	tcttttttga	gacggagtct	3186
cgctctgccg	cccaggctgg	agtgcagtgg	cgcgatctcg	gctcactgca	agctctgcct	3246
cccaggttca	caccattctc	ctgcctcagc	ctcccgagta	gctgggacta	caggtgccca	3306
ccaccacgcc	tggctagttt	tttgtatttt	tagtagagac	gcagtttcac	cgtgttagcc	3366
aggatggtct	cgatctcctg	accttgtgat	ctgcccgcct	cggcctccca	aagtgctggg	3426
attacaggtg	tgagccaccg	cgcccagcct	acattcactt	ctaaagtcta	tgtaatggtg	3486
gtcattttt	cccttttaga	atacattaaa	tggttgattt	ggggaggaaa	acttattctg	3546
aatattaacg	gtggtgaaaa	ggggacagtt	tttaccctaa	agtgcaaaag	tgaaacatac	3606
aaaataagac	taatttttaa	gagtaactca	gtaatttcaa	aatacagatt	tgaatagcag	3666
cattagtggt	ttgagtgtct	agcaaaggaa	aaattgatga	ataaaatgaa	ggtctggtgt	3726
atatgtttta	aaatactctc	atatagtcac	actttaaatt	aagccttata	ttaggcccct	3786
ctattttcag	gatataattc	ttaactatca	ttatttacct	gattttaatc	atcagattcg	3846
aaattctgtg	ccatggcgta	tatgttcaaa	ttcaaaccat	ttttaaaatg	tgaagatgga	3906
cttcatgcaa	gttggcagtg	gttctggtac	taaaaattgt	ggttgttttt	tctgtttacg	3966
taacctgctt	agtattgaca	ctctctacca	agagggtctt	cctaagaaga	gtgctgtcat	4026
tatttcctct	tatcaacaac	ttgtgacatg	agattttta	agggctttat	gtgaactatg	4086
atattgtaat	ttttctaagc	atattcaaaa	gggtgacaaa	attacgttta	tgtactaaat	4146
ctaatcagga	aagtaaggca	ggaaaagttg	atggtattca	ttaggtttta	actgaatgga	4206
gcagttcctt	atataataac	aattgtatag	tagggataaa	acactaacaa	tgtgtattca	4266
ttttaaattg	ttctgtattt	ttaaattgcc	aagaaaaaca	actttgtaaa	tttggagata	4326
ttttccaaca	gcttttcgtc	ttcagtgtct	taatgtggaa	gttaaccctt	accaaaaaag	4386
gaagttggca	aaaacagcct	tctagcacac	tttttaaat	gaataatggt	agcctaaact	4446
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ttgaatgcac	С					4517

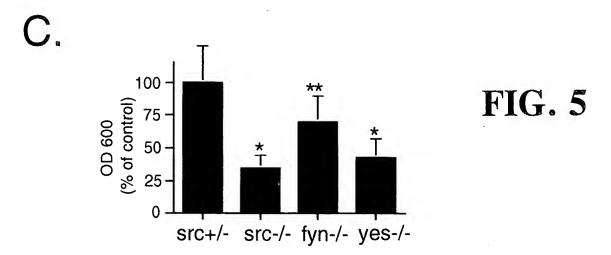
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FIG. 4 cont.

Lys	Phe	Pro 435	Ile	Lys	Trp	Thr	Ala 440	Pro	Glu	Ala	Ala	Leu 445	Tyr	Gly	Arg
Phe	Thr 450	Ile	Lys	Ser	Asp		_	Ser		Gly	Ile 460	Leu	Gln	Thr	Glu
Leu 465	Val	Thr	Lys	Gly	Arg 470	Val	Pro	Tyr	Pro	Gly 475	Met	Val	Asn	Arg	Glu 480
Val	Leu	Glu	Gln	Val 485	Glu	Arg	Gly	Tyr	Arg 490		Pro	Суѕ	Pro	Gln 495	Gly
Cys	Pro	Glu	Ser 500	Leu	His	Glu	Leu	Met 505	Asn	Leu	Cys	Trp	Lys 510	Lys	Asp
Pro	Asp	Glu 515	Arg	Pro	Thr	Phe	Glu 520	Tyr	Ile	Gln	Ser	Phe 525	Leu	Glu	Asp
Tyr	Phe 530	Thr	Ala	Thr	Glu	Pro 535	Gln	Ţyr	Gln	Pro	Gly 540	Glu	Asn	Leu	





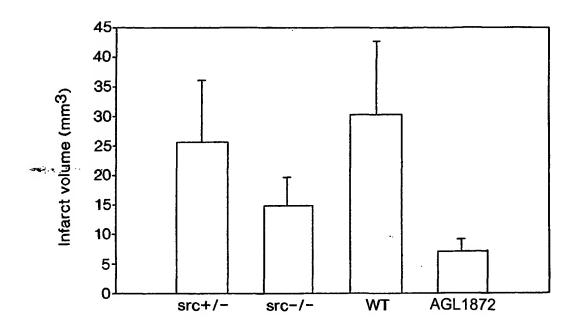
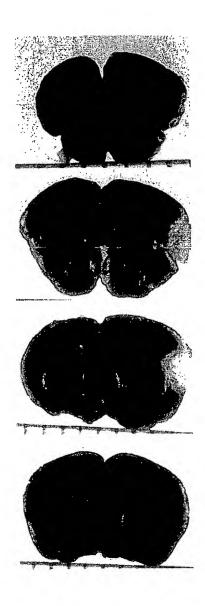


FIG. 6





AGL1872

FIG. 7

FIG. 8

FIG. 9

PD173955

FIG. 10

FIG. 11

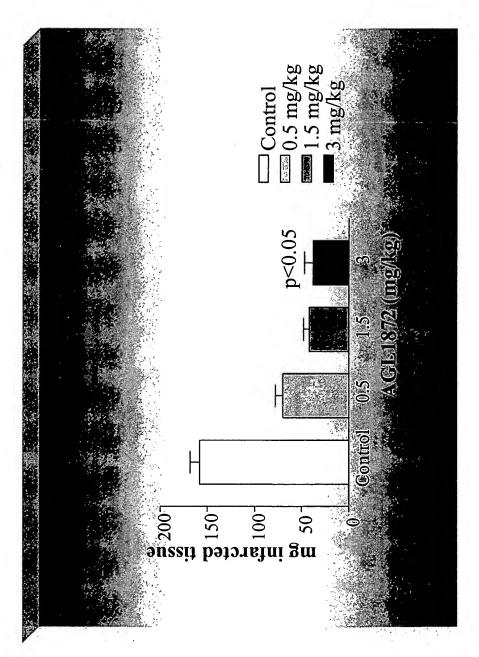


FIG. 12

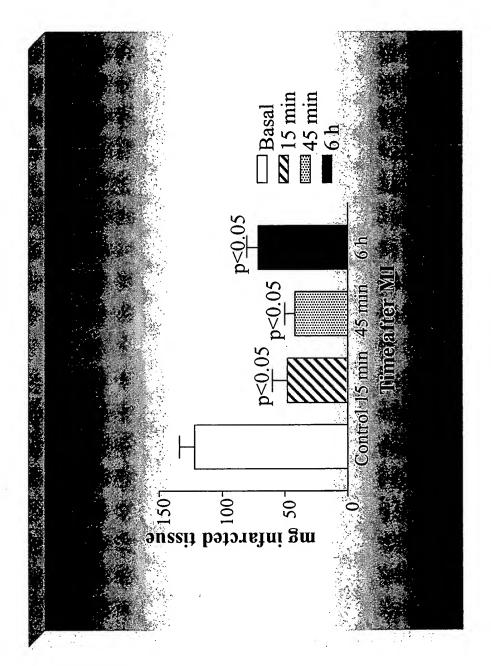


FIG. 13

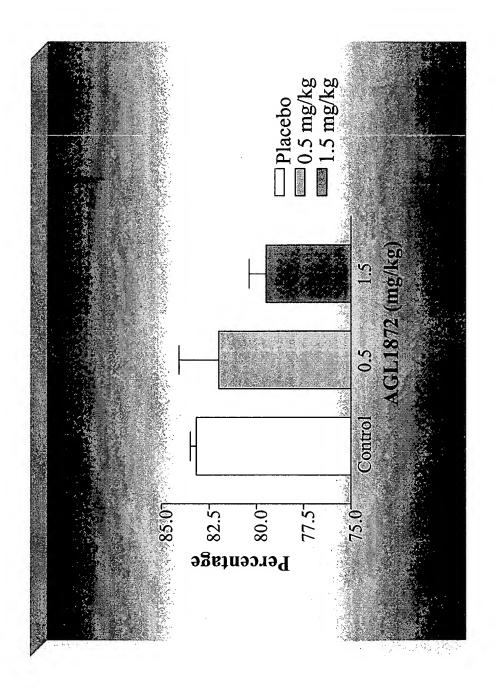


FIG. 14